

AMENDMENTS TO THE CLAIMS

1-20. (Canceled)

21. (New) A device for use with a voltage source, a fluid having a substance, and a plurality of objects, each of the objects having a surrounding membrane that prevents the substance from passing therethrough without electroporation, said device comprising:

a fluid chamber operable to receive the fluid;

a stimulator array comprising at least one anode and at least one cathode, said stimulator array structured for connection to the voltage source; and

a conducting portion having a first side and a second side, said first side being in electrical contact with one of said at least one anode and said at least one cathode, said second side being disposed to receive a layer of the plurality of objects,

wherein when said at least one anode comprises only a single anode, said at least one cathode comprises more than one cathode,

wherein when said at least one cathode comprises only a single cathode, said at least one anode comprises more than one anode,

wherein said conducting portion is disposed such that said second side is disposed between said first side and the fluid when the fluid is received in said fluid chamber, and

wherein, when the second side has the layer of the plurality of objects thereon, when the fluid is in said fluid chamber and when the voltage source provides voltage to said stimulator array, said stimulator array is operable to generate spatially variant voltages to said conducting portion to enable the substance to pass through membranes of a spatially variant portion of the plurality of objects via electroporation.

22. (New) The device according to claim 21, further comprising:

indium bumps,

wherein said conducting portion comprises microwire glass and is connected to said stimulator array via said indium bumps.

23. (New) A device according to claim 21, further comprising:
a pump; and
tubing in communication with said pump and said fluid chamber,
wherein said fluid chamber comprises sidewalls, an inflow port, outflow ports, and valves to prevent back flow, and
wherein said pump is operable to pump the fluid into the fluid chamber via said tubing.
24. (New) The device according to claim 21, wherein said at least one anode comprises a single anode.
25. (New) A device according to claim 21, wherein said stimulator array comprises alternating rows of anodes and cathodes.
26. (New) A device according to claim 21, wherein said stimulator array comprises a plurality of anodes and a plurality of cathodes, and
wherein each cathode is surrounded by a number of anodes.
27. (New) The device according to claim 21, wherein said at least one cathode comprises a single cathode.